

L1 ANSWER 1 OF 1 WPIX (C) 2002 THOMSON DERWENT

AN 1993-365463 [46] WPIX

DNC C1993-162154

TI Coating compsn. for cars - has improved storage stability and resistance to acids and scuffing.

DC A18 A21 A82 G02

PA (KAPA) KANSAI PAINT CO LTD

CYC 1

PI **JP 05271608** A 19931019 (199346)* 15p <--

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AB JP 05271608 A UPAB: 19940103

The compsn. comprises 20-89 wt.% of vinyl copolymer (A) consisting of 5-40 wt.% of alkoxysilane gp.-contg. vinyl monomer (A1) of formula (I), 5-60 wt.% of hydroxyl gp.-contg. vinyl monomer (A2) and less than 90 wt.% of other copolymerisable vinyl monomer (A3); 1-50 wt.% of functional gp.-contg. fluororesin; and 10-50 wt.% of amino resin (C).

In formula (I), A is -C(O)-O- or -Ph- (Ph is phenyl), R1 is H or methyl, R2 is 1-6C divalent satd. aliphatic hydrocarbon gp., R3 and R4 are independently phenyl, 1-6C alkyl or 1-10C alkoxyl, R5 is 1-10C alkyl, m is 0 or 1 and n is an integer of 1-100.

Pref. examples of (A1) are (meth)acryloxypropyl- trimethoxysilane, methacryloxypropyl- triethoxy(n-butoxy)silane, (meth)acryloxypropyl methyltrimethoxy (n-butoxy)silane. Examples of (A2) are 2-hydroxyethyl (meth)acrylate, monoacrylates of ethylene glycol, butanediol, polyethylene glycol and polypropylene glycol. (A3) may be selected from 1-22C alkyl (meth)acrylates, carboxyl gp.-contg. vinyl monomers, glycidyl gp.-contg. vinyl monomers, styrene-type monomers and nitrile-type monomers. (A) pref. has number average mol. wt. 3,000-500,000 (5,000-100,000). (B) Contains functional gps. such as hydroxyl, carboxyl and isocyanate gps.. Examples of (C) are melamine-formaldehyde resins etherified with methanol or butanol.

USE/ADVANTAGE - The compsn. is suitable as a top-coating for automobiles. It has excellent storage stability. The obtd. coating has excellent water repellency and resistance to acids, scuffing and stains.

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